# **Clinical Physiology**

Volume 15, 1995

**EDITOR** 

J. Bülow Copenhagen

REVIEW ARTICLES EDITOR

J. H. Henriksen Hvidovre

ASSOCIATE EDITORS

R. H. T. Edwards Liverpool

N. A. Lassen Copenhagen J. W. Severinghaus San Francisco

A. Uusitalo Tampere H. Vik-Mo Bergen

J. Wahren Stockholm

b

Blackwell Science

**Published for the** 

**Scandinavian Society of Clinical Physiology** 

# **Clinical Physiology**

Volume 15, 1995

**EDITOR** 

J. Bülow Copenhagen

REVIEW ARTICLES EDITOR

J. H. Henriksen Hvidovre

ASSOCIATE EDITORS

R. H. T. Edwards Liverpool

N. A. Lassen Copenhagen J. W. Severinghaus San Francisco

A. Uusitalo Tampere H. Vik-Mo Bergen

J. Wahren Stockholm

b

Blackwell Science

**Published for the** 

**Scandinavian Society of Clinical Physiology** 

## **NUMBER 1 JANUARY 1995**

### Review

1 Assessment of glucose metabolism in humans with the simultaneous use of indirect calorimetry and tracer techniques

L. Tappy, N. Paquot, P. Tounian, P. Schneiter and E. Jéquier

## **Original Communications**

- 13 Effect of 6 months of exercise training on cardiovascular responses to head-up tilt in the elderly
  J. F. Carroll, V. A. Convertino, M. L. Pollock, J. E. Graves and D. T. Lowenthal
- 27 Effect of hypoxia on muscle oxygenation and metabolism during arm exercise in humans
  M. Jensen-Urstad, I. Hallbäck and K. Sahlin
- 39 Day-to-day variability of cardiac autonomic regulation parameters in normal subjects
  J. Tövry, M. Mäntysaari, J. Hartikainen and E. Länsimies
- 47 Comparison of two methods to assess the tissue/blood partition coefficient for xenon in subcutaneous adipose tissue in man *P.-A. Jansson and P. Lönnroth*
- 57 99mTc-MAG<sub>3</sub> kinetics in the normal pig. A comparison to <sup>131</sup>I-OIH and <sup>125</sup>I-iothalamate after single injection and during continuous infusion
  M. Rehling, J. Frøkiær, E. U. Poulsen, J. Marqversen, B. V. Nielsen and T. Bacher
- 73 Plasma endorphin species during dynamic exercise in humans A. Viru and Z. Tendzegolskis
- 81 Cardiovascular and hormonal responses to anaphylactic shock in the pig J. Jacobsen, C. R. Johnsen, P. S. Skov, J. Warberg, U. Knigge and N. H. Secher
- 91 A comparison between two exercise tests on cycle; a computerized test versus the Åstrand test A. G. M. Wisén and B. Wohlfart
- 103 Instructions to authors

## NUMBER 2 MARCH 1995

105 Pulmonary venous systolic flow fraction in patients with mitral regurgitation: transoesophageal echocardiographic findings in relation to haemodynamic and angiographic evaluation

K. Karp, S. Holm, D. Teien, C. Backman and P. Eriksson

- 119 Cerebral perfusion during human liver transplantation F. Pott, F. S. Larsen, E. Ejlersen, P. Linkis, L. G. Jørgensen and N. H. Secher
- 131 Computerized evaluation of the peripheral blood flow during maximal vasodilatation in humans using venous occlusion plethysmography I. Gretzer, J. Inacio and A. Olsson
- 143 Effect of epidural anaesthesia on dorsal pedis arterial diameter and blood flow P. Rørdam, H. L. Olesen, J. Sindrup and N. H. Secher
- 151 A bioacoustic method for timing of respiration at cardiac investigations C. Xiong, B. Hök, T. Strömberg, D. Loyd, B. Wranne and P. Ask
- 159 Increased transcapillary escape rate of albumin in elderly subjects due to long-term smoking habits E. W. Jensen, K. Espersen, J. H. Knudsen and S. L. Nielsen
- 169 Cardiovascular, plasma norepinephrine, and thermal adjustments to prolonged exercise in young and older healthy humans K. P. Davy, D. G. Johnson and D. R. Seals
- 183 Instructions to authors

## NUMBER 3 MAY 1995

- 185 Parameter estimation in six numerical models of transperitoneal transport of potassium in patients undergoing peritoneal dialysis J. Graff, S. Fugleberg, P. Joffe, J. Brahm and N. Fogh-Andersen
- 199 Variation in plethysmographically measured limb blood flow using two study designs S. Sundberg

- 207 Variability in airway conductance and lung volume in subjects with asthma G. Bylin, L. Lagerstrand, G. Hedenstierna and P. D. Wagner
- 219 Beat-to-beat agreement of non-invasive finger artery and invasive radial artery blood pressure in hypertensive patients taking cardiovascular medication A. Lindqvist
- 231 Effects of glucocorticoids and sympathomimetic agents on basal and insulin-stimulated glucose metabolism

  N. Paquot, Ph. Schneiter, E. Jéquier and L. Tappy
- 241 Modification and validation of a commercially available portable detector for measurement of adipose tissue blood flow J. S. Samra, K. N. Frayn, J. A. Giddings, M. L. Clark and I. A. Macdonald
- 249 Cardiovascular response in patients with and without myocardial ischaemia during dobutamine echocardiography stress test for coronary artery disease S. Aakhus, K. Biørnstad and J. Hatle
- 265 Saline contrast and colour Doppler transoesophageal echocardiography in detecting a patent foramen ovale and right-to-left shunts in stroke patients M. Luotolahti, M. Saraste and J. Hartiala
- 275 Knee extensor performance of dominant and non-dominant limb throughout repeated isokinetic contractions, with special reference to peak torque and mean frequency of the EMG
  B. Lindström, S. Karlsson and B. Gerdle
- 287 Lung function in Estonian children: effect of sitting height J. Kivastik and P. Kingisepp
- 297 Instructions to authors

#### NUMBER 4 JULY 1995

## **Original communications**

- 299 Basal and exercise-induced changes in plasma catecholamines: relationship to age, smoking habits and sampling times
  E. W. Jensen, K. Espersen, I.-L. Kanstrup and N. J. Christensen
- 307 Comparison of some criteria for diagnosing a myocardial infarction after aortocoronary bypass grafting (CABG)
  C. Backman, K. A. Jacobsson, H. Linderholm and G. Osterman

- 319 Fat metabolism and its response to infusion of insulin and glucose in patients with advanced chronic obstructive pulmonary disease *P. Jakobsson, L. Jordfeldt and H. von Schenck*
- 331 The response of skin microcirculation to hyperthermic stress in tumour patients G. G. Ranade, R. R. Puniyani and N. G. Huilgol
- 339 Autonomic responses to the Valsalva manoeuvre in healthy subjects S. J. Piha
- 349 Cardiovascular autonomic control is disturbed in nocturnal teethgrinders T. T. Sjöholm, S. J. Piha and I. Lehtinen
- 355 Spirometry and ventilation-perfusion inequality in patients with mild allergic asthma before and during the pollen season L. Lagerstrand, M. Skedinger, E. Ihre, G. Halldén and O. Zetterström
- 365 An increase in micropulmonary red cell mass in hyperlipidaemic patients I. Pintarić, D. Eterović, J. Tocilj, Z. Reiner and V. Lipovac
- 377 Metabolic, thermal and circulatory effects of intravenous infusion of amino acids in tetraplegic patients
  A. K. Aksnes, T. Brundin, N. Hjeltnes and J. Wahren
- 397 M-mode magnetic resonance imaging: a new modality for assessing cardiac function L. Wigström, L. Lindström, L. Sjöqvist, K.-Å. Thuomas and B. Wranne

## **Short communication**

- 409 Pilocarpine iontophoresis test: an index of physiological sweat secretion? N. Hjortskov, L. T. Jepsen, B. Nielsen, A. Juul and N. E. Skakkbæk
- 415 Instructions to authors

## **NUMBER 5 SEPTEMBER 1995**

## **Original communications**

- 417 Effect of 8-day therapy with propionyl-L-carnitine on muscular and subcutaneous blood flow of the lower limbs in patients with peripheral arterial disease *M. Bolognesi, P. Amodio, C. Merkel, L. Godi and A. Gatta*
- 425 The influence of body composition on left ventricular mass and other echocardiographic and Doppler measurements in 70-year-old males
  B. Andrén, L. Lind, K. Larsson, G. Hedenstierna, S. Ljunghall and H. Lithell
- 435 CAVIAR: a tool to improve serial analysis of the 12-lead electrocardiogram J. Berg, J. Fayn, L. Edenbrandt, B. Lundh, P. Malmström and P. Rubel

- 447 Limitations of R-average as an index of left ventricular isovolumic relaxation T. Myrmel, I. B. Krukenkamp, C. A. Caldarone, P. A. Burns, G. Gaudette and S. Levitsky
- 459 Does abnormal single-breath nitrogen wash-out predict an accelerated decline in FEV<sub>1</sub> in lung-healthy subjects? M. Dahlqvist
- 467 Pharmacokinetics and dosimetry of [111In] F(ab')<sub>2</sub> fragments against prostatic acid phosphatase after intraprostatic injection for immunoscintigraphy in prostate cancer

J. T. Nielsen, J. Poulsen, C. Flø, J. Margversen and M. Rehling

- 483 Heart rate and blood pressure variability and baroreflex sensitivity in hypercholesterolaemia
  P. Koskinen, M. Kupari, J. Virolainen, J. Stjernvall, J. Jolkkonen, J. Tuomilehto and M. J. Tikkanen
- 491 Validity of ambulatory 24-h oesophageal pH measurement in the diagnosis of reflux disease
  E. Hietanen, O. T. Raitakari and H. Backman
- 499 Ventilation-perfusion inequality in nocturnal hypoxaemia due to chronic obstructive lung disease (COLD)
  K. Sandek, T. Andersson, T. Bratel and L. Lagerstrand
- 515 Induction of anaesthesia by propofol and hepatic blood flow in the rabbit D. Demeure dit Latte, J.-M. Bernard, Y. Blanloeil, P. Peltier, T. Francois and J.-F. Chatal
- 523 Brain and muscle oxygen saturation during head-up-tilt-induced central hypovolaemia in humans
  P. Madsen, F. Lyck, M. Pedersen, H. L. Olesen, H. Bay Nielsen and N. H. Secher
- 535 Instructions to authors

### **NUMBER 6 NOVEMBER 1995**

## **Original communications**

537 Cerebral blood flow and resistances during hypotensive haemorrhage in the rabbit: transcranial Doppler and laser-Doppler flowmetry G. Leftheriotis, J. M. Graud, M. P. Preckel and J. L. Saumet

- 547 Insulin resistance is not exhibited by advanced chronic obstructive pulmonary disease patients
  P. Jakobsson, L. Jorfeldt and H. von Schenck
- 557 Effects of mental state on heart rate and blood pressure variability in men and women
  K. Madden and G. K. Savard
- 571 Effect of posture on baroreflex sensitivity in healthy subjects J. Hartikainen, E. Vanninen and E. Länsimies
- 581 Effects of lactate infusion on hepatic gluconeogenesis and glycogenolysis E. Haesler, P. Schneiter, E. Temler, E. Jéquier and L. Tappy
- 597 The velocity distribution in the aortic annulus at different times during systole is mainly determined by the pattern of flow convergence in the left ventricular outflow tract An experimental study using Doppler colour flow mapping Y.-Q. Zhou, S. Faerestrand, S. Birkeland, K. Matre, M.-E. Koller and P. Husby
- 611 Nocturnal temperature and subcutaneous blood flow in humans J. H. Sindrup, L. J. Petersen, S. Madsen, J. K. Kristensen and J. Kastrup
- 623 A role for adenosine in coronary vasoregulation in man. Effects of the ophylline and enprofylline
  A. Edlund, T. Conradsson and A. Sollevi
- 637 Effects of exposure to morning bright light in the blind and sighted controls T. Partonen, O. Vakkuri and C. Lamberg-Allardt
- 647 Instructions to authors
- 649 Author index: volume 15

Volume contents: volume 15

